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DATE MAILED: 03/24/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/516,900 03/01/2000		Yukihiko Aoki	450100-02386	2789
20999	7590 03/24/2005		EXAMINER	
FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL.			TRAN, THAI Q	
	L, NY 10151		ART UNIT	PAPER NUMBER
	•		2616	-

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
		• •				
Office Action Summary	09/516,900 Examiner	AOKI, YUKIHIKO Art Unit				
,						
The MAILING DATE of this communication app	Thai Tran	2616				
Period for Reply	cars on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from h, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>03 February 2005</u> .						
· _ · · ·						
3) Since this application is in condition for allowar	,—					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) 1-28 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-28</u> is/are rejected.						
7) Claim(s) is/are objected to.	• • •					
8) Claim(s) are subject to restriction and/o	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
•	10)⊠ The drawing(s) filed on <u>01 March 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
 ☐ Certified copies of the priority document 	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Feb. 3, 2005 has been entered.

Response to Arguments

2. Applicant's arguments filed Feb. 3, 2005 have been fully considered but they are not persuasive.

In re pages 10-11, applicant argues that, as understood by applicant, the disclosure in Saeijs for detecting a "discontinuity" in a SOA tag and assuming that it come from a TP that has not been recorded, such that "missing" packets are replaced with null packets does not teach or suggest the newly added limitation discontinuity information data contains at least an indication of a status change of content and position within a source data.

In response, the examiner respectfully disagrees. Saeijs et al discloses in col. 23, lines 39-53 that

"For situation 1, where the transport rate of the incoming transport stream is constant and know, a variation on the previous method...On playback, each time a "discontinuity" in the SOA tag is detected, it is assumed to have come from a TP that has not been recorded. These "missing" packets are replaced with Null packets. All TPS are output at the known and constant transport rate. ..."

From the above passage, it is clear that the "discontinuity" in the SOA tag of Saeijs et al indicated a status change of content ("missing" packets) and position (positions of the "missing" packets) within a source data as required by the amended claimed invention.

In re pages 11-12, applicant argues that the combination of Smith, Tsuria, and Maeda as applied by the Examiner does not disclose or suggest the newly added limitation "wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data".

In response, the examiner respectfully disagrees. Tsuria discloses in col. 1, lines

"In some of the existing broadcast methods, especially those involving encrypted digital transmissions, scrolling through channels takes a certain amount of time, typically of the order of 1 second per channel. This time, which is known as "zapping time", is a result of delays involved in tuning the decoder to a selected channel, acquiring sufficient data to display on the television and acquiring a control word to decrypt the transmissions".

The "zapping time" of Tsuria anticipates the claimed "discontinuity information data" because the "zapping time" indicates a status change of content (scrolling through channels) and position within a source data (the position of the changing of channels). Thus, Tsuria does indeed disclose the alleged limitation "wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data" (zapping time).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7, 10, 12-21, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al (US 6,697,099 B2) in view of Saeijs et al (US 6,556,590 B1) as set forth in the Final Office Action mailed Oct. 05, 2004.

Regarding claim 1, Smith et al discloses a method for transmitting data in which the data is transmitted from an electronic equipment to other electronic equipment on a network in which a plurality of electronic equipment are connected over a serial bus interface (Fig. 1, col. 2, lines 18-57). However, Smith et al does not specifically discloses the steps of detecting the timing of inserting discontinuity information data into contents of the data on said electronic equipment to be recorded and/or reproduced for a recording medium on said other electronic equipment on said network; and inserting said discontinuity information data into said data on detection of the timing of inserting the discontinuity information data in said detection step, wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data.

Saeijs et al teaches a method for transmitting data in which the data is transmitted on a network (Fig. 18 and col. 24, line 59 to col. 25, line 7, P1394 is serial bus interface), comprising:

a detection step of detecting the timing of inserting discontinuity information data into contents of the data to be recorded and/or reproduced for a recording medium (col. 23, lines 39-53); and

a step of inserting said discontinuity information data into said data on detection of the timing of inserting the discontinuity information data in said detection step, wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data (col. 23, lines 39-53).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capabilities of detecting the missing packets and replacing the missing packets with the NULL packets as taught by Saeijs et al into Smith et al's system in order to record/reproduce other types of information signals in the known tape format (see col. 1, lines 65-67 of Saeijs et al).

Regarding claim 2, Saeijs et al discloses the claimed wherein said detection step detects a transition point on the time axis of the contents of the data recorded on said recording medium as said timing (missing packets disclosed in col. 23, lines 39-53).

Regarding claim 3, Saeijs et al further discloses the claimed wherein said detection step detects the outputting start tie of the data recorded on said recording medium as said timing (starting playback disclosed in col. 23, lines 39-53).

Regarding claim 4, Saeijs et al discloses the claimed wherein said detection step detects the outputting end time of the data recorded on said recording medium as said timing (ending of the playback disclosed in col. 23, lines 39-53).

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Regarding claim 5, Saeijs et al discloses the claimed wherein said detection step detects the time of seizing a channel on said network being used by another electronic equipment on said network and outputting data recorded on said recording medium as said timing (playback disclosed in col. 23, lines 39-53).

Regarding claim 6, Saeijs et al discloses the claimed wherein said detection step detects the time of transition of data recorded on said recording medium to variable speed playback as said timing (playback disclosed in col. 23, lines 39-53 and trick play disclosed from col. 19, line 66 to col. 20, line 16).

Regarding claim 7, Saeijs et al discloses the claimed wherein said detection step detects the time of contents switching of data recorded on said recording medium as said timing (missing packets disclosed in col. 23, lines 39-53).

Regarding claim 10, Saeijs et al discloses the claimed wherein said recording medium is a tape-shaped recording medium (digital video cassette (DVC), col. 1, lines 56-62 and col. 7, lines 38-46).

Regarding claim 12, Smith et al discloses a method for transmitting data in which the data is transmitted from an electronic equipment to other electronic equipment on a network in which a plurality of electronic equipment are connected over a serial bus interface (Fig. 1, col. 2, lines 18-57). However, Smith et al does not specifically discloses the steps of detecting the timing of inserting discontinuity information data into contents received from said electronic equipment through a communication medium different from said serial bus interface to be recorded and/or reproduced from a recording medium on said other electronic equipment on said

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network; and inserting said discontinuity information data into said data on detection of the timing of inserting the discontinuity information data in said detection step, wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data.

Saeijs et al teaches a method for transmitting data in which the data is transmitted on a network (Fig. 18 and col. 24, line 59 to col. 25, line 7, P1394 is serial bus interface), comprising:

a detection step of detecting the timing of inserting discontinuity information data into contents received from outside through a communication medium different from said serial bus interface (col. 23, lines 39-53); and

a step of inserting said discontinuity information data into said data on detection of the timing of inserting the discontinuity information data in said detection step, wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data (col. 23, lines 39-53).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capabilities of detecting the missing packets and replacing the missing packets with the NULL packets as taught by Saeijs et al into Smith et al's system in order to record/reproduce other types of information signals in the known tape format (see col. 1, lines 65-67 of Saeijs et al).

Regarding claim 13, Saeijs et al discloses the claimed wherein said detection step detects a transition point of contents of data received over said serial bus interface

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and into which has been inserted said discontinuity information data as said timing (missing packets disclosed in col. 23, lines 39-53).

Regarding claim 14, Saeijs et al discloses the claimed wherein said detection step detects the time of switching on station selection from a program received from outside over a communication medium different from said serial bus interface to a different program (selecting program A disclosed in col. 23, lines 13-22).

Apparatus claims 15-21 and 24 are rejected for the same reasons as discussed in corresponding method claims 1-7 and 10 above.

5. Claims 1, 8-9, 11, 15, 22-23, and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al (US 6,697,099 B2) in view of Tsuria (US 5,786,845) and Maeda (US 6,529,246 B1) as set forth in the Final Office Action mailed Oct. 05, 2004.

Regarding claim 1, Smith et al discloses a method for transmitting data in which the data is transmitted from an electronic equipment to other electronic equipment on a network in which a plurality of electronic equipment are connected over a serial bus interface (Fig. 1, col. 2, lines 18-57). However, Smith et al does not specifically discloses the steps of detecting the timing of inserting discontinuity information data into contents of the data on said electronic equipment to be recorded and/or reproduced for a recording medium on said other electronic equipment on said network; and inserting said discontinuity information data into said data on detection of the timing of inserting the discontinuity information data in said detection step, wherein said discontinuity

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information data contains at least an indication of a status change of content and position within a source data.

Tsuria teaches a method for transmitting data in which the data is transmitted/received on a network (Fig. 1), comprising:

a detection step for detecting the timing of inserting discontinuity information data into contents of the data (detecting the zapping periods disclosed in col. 3, lines 54-65 and col. 1, lines 16-24); and

a step of inserting said discontinuity information data into said data on detection of the timing of inserting the discontinuity information data in said detection step, wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data (displaying advertisement data during zapping periods disclosed in col. 3, lines 54-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capability of displaying advertisement data during zapping periods as taught by Tsuria into Smith et al's system in order to provide additional services which are especially applicable for use at zapping times (col. 1, lines 32-33 of Tsuria).

The combination of Smith et al and Tsuria as discussed above does not specifically discloses the claimed that the generating means inserting the generated discontinuity information data into contents of data on said electronic equipment to be recorded and/or reproduced for a recording medium on said other electronic equipment on said network.

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Maeda teaches that the inserting a channel number during zapping periods can be applied not only to a video cassette recorder but also to a television set or the like (col. 6, lines 43-67).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the implement the apparatus of Tsuria into video cassette recorder as taught by Maeda because Maeda teaches that displaying channel number during zapping periods can be applied not only to a video cassette recorder but also to a television set or the like.

Regarding claim 8, Maeda discloses the claimed wherein said detection step detects the time of start of recording of data on said recording medium as said timing (col. 4, lines 18-38).

Regarding claim 9, Maeda discloses the claimed wherein said detection step detects the time of end of recording of data on said recording medium as said timing (col. 4, lines 18-38).

Regarding claim 11, the combination of Tsuria, Smith et al, and Maeda as discussed in claim 1 above discloses all the claimed invention except for providing a disc-shaped recording medium.

Smith et al further teaches a disc-shaped recording medium (DVD disclosed in col. 2, lines 18-26).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the replace DVD as taught by Smith et al for video cassette recorder of Maeda in order to increase the quality of the video signal to be

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recorded/reproduced and decrease the time in searching for the desired recorded video signal because DVD has higher quality than VCR and random access capability.

Apparatus claims 15, 22-23, and 25 are rejected for the same reasons as discussed in corresponding method claims 1, 8-9, and 11 above.

Regarding claim 26, Smith et al discloses an electronic equipment in which the data is transmitted from an electronic equipment to other electronic equipment on a network constructed by connecting a plurality of electronic equipment over a serial bus interface (Fig. 1, col. 2, lines 18-57). However, Smith et al does not specifically discloses tuning means for tuning data received from outside over a communication medium different from the serial bus interface; and generating means for generating discontinuity information data of data received through said serial bus interface and/or said tuning means; said generating means inserting the generated discontinuity information data into contents of data on said electronic equipment to be recorded and/or reproduced from a recording medium on said other electronic on said network, wherein said data is received through said tuning means, and wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data.

Tsuria teaches an electronic equipment in which data is transmitted/received on a network (Fig. 1), comprising:

tuning means (tuner unit 19 of Fig. 1, col. 2, lines 61-67) for tuning data received through said interface and/or said tuning means; and

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generating means (advertisement data disclosed in col. 3, lines 54-65) for generating discontinuity information data of data received through said interface and/or said tuning means;

said generating means inserting the generated discontinuity information data into contents of data received through said tuning means, and wherein said discontinuity information data contains at least an indication of a status change of content and position within a source data (displaying advertisement data during zapping periods disclosed in col. 3, lines 54-65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the capability of displaying advertisement data during zapping periods as taught by Tsuria into Smith et al's system in order to provide additional services which are especially applicable for use at zapping times (col. 1, lines 32-33 of Tsuria).

The combination of Smith et al and Tsuria as discussed above does not specifically discloses the claimed that the generating means inserting the generated discontinuity information data into contents of data on said electronic equipment to be recorded and/or reproduced for a recording medium on said other electronic equipment on said network.

Maeda teaches that the inserting a channel number during zapping periods can be applied not only to a video cassette recorder but also to a television set or the like (col. 6, lines 43-67).

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It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the implement the apparatus of Tsuria into video cassette recorder as taught by Maeda because Maeda teaches that displaying channel number during zapping periods can be applied not only to a video cassette recorder but also to a television set or the like.

Regarding claim 27, Tsuria discloses the claimed detection means (detecting the zapping periods disclosed in col. 3, lines 54-65 and col. 1, lines 16-24) for detecting the point of transition of contents of data having inserted therein said discontinuity information data received over said interface.

Regarding claim 28, Tsuria discloses the claimed wherein said generating means inserts said discontinuity information data when switching from a program being received from outside through said tuning means to a different program on station selection (zapping periods disclosed in col. 3, lines 54-65 and col. 1, lines 16-24).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Tran whose telephone number is (571) 272-7382. The examiner can normally be reached on Mon. to Friday, 8:00 AM to 5:30 PM.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTQ

THAN EXAMILER